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LIP TYPE SEAL

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ABSTRACT

PROBLEM TO BE SOLVED: To provide a **lip** type **seal** for preventing increase in the slide load of the tip part of an elastomer-made **lip** member, and maintaining sealing performance for a long time when a **shaft** is stopped, even the pressure in the machine inside space become high when the **shaft** is rotated.

SOLUTION: The inner periphery of a tubular case 11 fixed to the inner periphery of a housing 1 holds an elastomer-made **lip** member 12, an inner side back up ring 13 for **bearing** the main body portion 123 of the member 12 from the back surface side, and a synthetic-resin(PTEE)-made **lip** member 14 arranged in the back surface side of the ring 13. A screw groove 125, causing pumping action in a leak direction when a **shaft** is rotated, is formed on the inner peripheral surface of the tip **lip** part 124 of the member 12, and a screw groove, causing pumping action in the reverse direction to the leakage, is formed on the inner peripheral surface of the tip **lip** part 143 of the member 14. Consequently the pressure, in the back surface space S3 of the tip **lip** part 124 of the member 12, stands against the pressure in the space S1 to relax the slide load of the tip part 124.

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